

Please replace the paragraph bridging pages 51 and 52 with the following:

--Adaptors used in this example are:

A3 Q adaptor: ggtacagacatggaggtgcagactaaaa (SEQ ID NO:2)  
ccaugucuguaccuccacgucugauuuucuaP

ssssN adaptor: tagtactcgtaatcagtgcttcaatgta (SEQ ID NO:8)  
atcatgagcattagtcacgaagttacatctaP

M adaptor: gtctccacgtcttattctgttcgacg (SEQ ID NO:4)  
tgtgagaagcagaggtgcagaataagacaagcP

ZavaW adaptor: tttagaagcagactgtaagaccgt (SEQ ID NO:9)  
tgtgagaagaaatcttcgtctgacattctggcaccatP

Primers used for PCR in this example are:

Q.top: ggtacagacatggaggtgcagactaaaa (SEQ ID NO:5);

SsssN.top: tagtactcgtaatcagtgcttcaatgta (SEQ ID NO:10);

ssssMn.amp: acactcttcgtctccacgtcttat (SEQ ID NO:11);

Mn.amp: acactcttcgtctccacgtcttat (SEQ ID NO:7); and

Z.top: tttagaagcagactgtaagaccgtga (SEQ ID NO:12).--

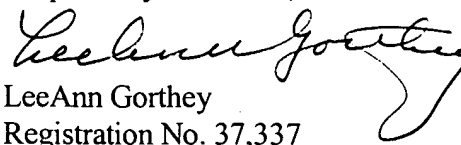
### REMARKS

Entry of the above amendment prior to examination is respectfully requested. The specification is amended in accordance with 37 C.F.R. §1.821 through §1.825 to add the Sequence Listing and to add SEQ ID NO:s for sequences disclosed in the application.

Typographical errors are also corrected. No new matter is added by the amendments.

If in the opinion of the Examiner a telephone conference would expedite the prosecution of the subject application, the Examiner is encouraged to call the undersigned at (650) 838-4403.

Respectfully submitted,

  
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Registration No. 37,337

Date: 11-8-01

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Appl. No. 09/934,020

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

*Page 35, paragraph starting on line 10:*

An exemplary tag library for sorting is shown below (SEQ ID NO:1 and SEQ ID NO:27).

Left Primer (SEQ ID NO:28)

Bsp 120I

5' -AGAATTCGGGCCTTAATTAA

↓

5' -AGAATTCGGGCCTTAATTAA - [<sup>4</sup>(A, G, T)<sub>8</sub>] -GGGCCC-  
TCTTAAGCCCGGAATTAATT - [<sup>4</sup>(T, C, A)<sub>8</sub>] -CCCGGG-

↑  
Eco RI

↑  
Pac I

Bbs I

BamHI

-GCATAAGTCTTCXXX ..XXXGGATCCGAGTGAT-3'  
-CGTATTCAGAAGXXX ..XXXCCTAGGCTCACTA

XXXXXCCTAGGCTCACTA-5'

Right Primer (SEQ ID NO:29)

*Page 44, paragraph starting on line 1:*

The sequences for the Q, N and M adaptors are as follows:

Q adaptor: 5' -ggtacagacatggaggtgcagactaaaa (SEQ ID NO:2)  
ccaugucuguaccuccacgucugauuuucup;

N adaptor: 5' -tagtactcgtaatcagtgcttcaatgta (SEQ ID NO:3)  
atcatgagcattagtcacgaagttacatctap; and

M adaptor: 5' -gtctccacgtcttattctgt (SEQ ID NO:4)  
tgtgagaagcagaggtgcagaataagacaagcp.

The sequences of the primers used for PCR include:

Q.top (=Q primer): 5' -[!]ggtacagacatggaggtgcagactaaaa (SEQ ID NO:5); N.top (=N primer):

5' -[!]tagtactcgtaatcagtgcttcaatgta (SEQ ID NO:6); and Mn.amp (=M primer):

5' -[!]cacactcttcgtctccacgtcttat (SEQ ID NO:7).

*Paragraph bridging pages 51 and 52:*

Adaptors used in this example are:

Q adaptor: ggtacagacatggaggtgcagactaaaa (SEQ ID NO:2)  
ccaugucuguaccuccacgucugauuuucuaP

ssssN adaptor: tagtactcgtaatcagtgcttcaatgta (SEQ ID NO:8)  
atcatgagcattagtcacgaagttacatctaP

M adaptor: gtctccacgtcttattctgttcgacg (SEQ ID NO:4)  
tgtgagaagcagaggtgcagaataagacaagcP

ZavaW adaptor: tttagaagcagactgtaagaccgt (SEQ ID NO:9)  
tgtgagaagaaatcttcgtctgacattctggcacca [/] tP

Primers used for PCR in this example are:

Q.top: ggtacagacatggaggtgcagactaaaa (SEQ ID NO:5);  
SsssN.top: tagtactcgtaatcagtgcttcaatgta (SEQ ID NO:10);  
ssssMn.amp: acactcttcgtctccacgtcttat (SEQ ID NO:11);  
Mn.amp: acactcttcgtctccacgtcttat (SEQ ID NO:7); and  
Z.top: tttagaagcagactgtaagaccgtga (SEQ ID NO:12).